

Claim Amendments

What is claimed:

1.-13. (canceled)

14. (new) An electric motor comprising:

a first body;

a plurality of magnetic components secured to the first body and located in at least two circular arrangements having a common axis and magnetic field lines forming across a gap from each magnetic component of the first arrangement to each magnetic component of the second arrangement, having the majority of magnetic field lines pass through substantially nonmagnetic material across the first gap;

at least one electrical circuit element located in each gap, the electrical circuit element being pierced by the magnetic field lines and having two faces substantially parallel to each other and perpendicular to the axis;

at least one bearing securing the electrical circuit element to the first body to allow the electrical circuit element to rotate along the axis of the bearing relative to the first body; and

at least two electrical paths of each electrical circuit element, the first path having a section located in the gap and extending transverse to the magnetic field lines

so that a current therein causes rotation thereof about the axis, the second path having a section located in the gap and extending transverse to the magnetic field lines so that a current therein causes rotation thereof about the axis.

15. (new) The electric motor of claim 14 wherein the electrical circuit component is a printed circuit board.

16. (new) The electric motor of claim 14 wherein the magnetic components are permanent magnets.

17. (new) The electric motor of claim 14 wherein the magnetic components are electromagnets.

18. (new) The electric motor of claim 17 wherein the magnetic components are secured to the first body, the first body being secured to a force reflection device.

19. (new) An electric motor comprising:

a first body;

a plurality of magnetic components secured to the first body and located in at least two rows substantially parallel to each other and magnetic field lines forming across a gap from each magnetic component of the first row to each magnetic component of the second row, having the majority of magnetic field lines pass through substantially nonmagnetic material across the first gap;

at least one electrical circuit element located in each gap, the electrical circuit element being pierced by the magnetic field lines and having two faces substantially parallel to each other and perpendicular to the magnetic field lines; at least one bearing securing the electrical circuit element to the first body to allow the electrical circuit element to move relative to the first body; and at least two electrical paths of each electrical circuit element, the first path having a section located in the gap and extending transverse to the magnetic field lines so that a current therein causes rotation thereof about the axis, the second path having a section located in the gap and extending transverse to the magnetic field lines so that a current therein causes rotation thereof about the axis.

20. (new) The electric motor of claim 19 wherein the electrical circuit component is a printed circuit board.

21. (new) The electric motor of claim 19 wherein the magnetic components are permanent magnets.

22. (new) The electric motor of claim 19 wherein the magnetic components are electromagnets.

23. (new) The electric motor of claim 22 wherein the magnetic components are secured to the first body, the first body being secured to a force reflection device.